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# 1 Semantic Web Services: Simulation, verification and automated composition of web services



Srini Narayanan, Sheila A. McIlraith

May 2002 **Proceedings of the 11th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(439.25 KB)

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Web services -- Web-accessible programs and devices - are a key application area for the Semantic Web. With the proliferation of Web services and the evolution towards the Semantic Web comes the opportunity to automate various Web services tasks. Our objective is to enable markup and automated reasoning technology to describe, simulate, compose, test, and verify compositions of Web services. We take as our starting point the DAML-S DAML+OIL ontology for describing the capabilities of Web service ...

**Keywords:** DAML, automated reasoning, distributed systems, ontologies, semantic web, web service composition, web services

2 Applications: Dynamic coordination of information management services for  
 processing dynamic web content



In-Young Ko, Ke-Thia Yao, Robert Neches

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Dynamic Web content provides us with time-sensitive and continuously changing data. To glean up-to-date information, users need to regularly browse, collect and analyze this Web content. Without proper tool support this information management task is tedious, time-consuming and error prone, especially when the quantity of the dynamic Web content is large, when many information management services are needed to analyze it, and when underlying services/network are not completely reliable. This pap ...

**Keywords:** dynamic service coordination, dynamic web content, scalable component-based software systems, semantic interoperability, web information management systems